# CLINICAL IMAGING

## *Contents*

VOLUME 28, NUMBER 1, 2004

ORIGINAL ARTICLES


1 **Pulmonary Lymphangioleiomyomatosis: High-resolution CT Findings in 11 Patients and Compared with the Literature**
Kun Eng Lim, Ying Huang Tsai, Yuan li Hsu, and Wen chen Hsu

6 **Dystrophic Breast Calcifications in Patients with Collagen Diseases**
Sun Mi Kim, Jeong Mi Park, and Woo Kyung Moon

10 **Magnetic Resonance Imaging and Diffusion-Weighted Images of Cystic Meningioma: Correlating with Histopathology**
Tai-Youeng Chen, Ping-Hong Lai, Jih-Tsun Ho, Jyh-Seng Wang, Wei-Liang Chen, Huay-Ben Pan, Ming-Ting Wu, Clement Chen, Huei-Lung Liang, and Chien-Fang Yang

20 **Multiple Globoid Meningiomas Associated with Craniomandibular Fibrous Dysplasia: Case Report**
Mustafa Taşar, Fatih Örs, Sertaç Yetişer, M. Şahin Uğurel, and Taner Üçöz

23 **CT Angiography with Multidetector-Row Helical CT in Spinal Arteriovenous Malformation**
Satoshi Terae, Kohsuke Kudo, Takeshi Asano, Satoshi Ushikoshi, Kazutoshi Hida, Yoshinobu Iwasaki, and Kazuo Miyasaka

28 **Gadolinium-Enhanced MR Angiography of Spinal Arteriovenous Malformation**
Margaret H. Pui

33 **Kaposi's Sarcoma Confined to the Colorectum: A Case Report**
F. Pédulla, O. Sisteron, P. Chevallier, T. Piche, M.C. Saint-Paul, and J.-N. Bruneton

36 **Focal Eosinophilic Infiltration of the Liver Mimicking Hepatocellular Carcinoma: Case Reports**
Hyo-Sung Kwak, Young-Min Han, and Jeong-Min Lee

40 **Hepatobiliary Scintigraphy: An Effective Tool in the Management of Bile Leak Following Laparoscopic Cholecystectomy**
Madhavi Tripathi, N. Chandrashekar, Rakesh Kumar, E.J. Thomas, Sandeep Agarwal, C.S. Bal, and A. Malhotra

44 **Computed Tomography-Guided Percutaneous Drainage of Splenic Abscesses**
Mustafa Taşar, Mehmet Şahin Uğurel, Murat Kocaoğlu, Mutlu Sağlam, and Ibrahim Somuncu

49 **A Case of Solid Variant Type of Pancreatic Serous Cystadenoma Mimicking Islet Cell Tumor**
Tatsuya Yamamoto, Norio Takahashi, Tadanori Yamaguchi, and Yoshiaki Imamura

52 **Three-Dimensional Noninvasive Contrast-Enhanced Electron Beam Tomography Angiography of the Kidneys: Adjunctive Use in Medical and Surgical Management**
Savas M. Tepe, Esat Memisoglu, and Ali Riza Kural

59 **MR Imaging of the Sternoclavicular Joint Following Trauma**
Carlos L. Benitez, Douglas N. Mintz, and Hollis G. Potter

64 **Parosteal Chondrosarcoma, a Very Rare Condition of the Mandibular Condyle**
Giorgio Bernasconi, Lorenzo Preda, Ernesto Padula, Ugo Baciliero, Luigi Sammarchi, and Massimo Bellomi

69 **Six Surgery-Correlated Sonographic Signs for Rotator Cuff Tears: Emphasis on Partial-Thickness Tear**
Chao-Hsuan Yen, Hong-Jen Chiou, Yi-Hong Chou, Chuang-Chuen Hsu, Jinn-Jer Wu, Hsiao-Li Ma, and Cheng-Yen Chang

CASE REPORTS

77 **Selected Case Reports**

ABSTRACTS

78 **Summaries of Selected Journal Articles**

BOOK REVIEWS

81 **PocketRadiologist: Brain Top 100 Diagnoses**
Anne G. Osborne, Editor (reviewed by L.A. Saint-Louis, MD)

81 **Aids to Radiological Differential Diagnosis—4th Edition**
Stephen Chapman and Richard Nakielny, Editors (reviewed by S. Morassut, MD)

82 **Medical Image Analysis**
Atam P. Dhawan, Editor (reviewed by Antonio F. Govoni, MD)

83 **Forthcoming Meetings and Courses**

83 **Erratum**

VOLUME 28, NUMBER 2, 2004

ORIGINAL ARTICLES

85 **Cerebral MR Venography**
Margaret H. Pui

90 **Diffuse Dural Gadolinium MRI Enhancement Associated with Bilateral Chronic Subdural Hematomas**
Svetlana Blitshteyn, Laszlo L. Mechtler, and Rohit Bakshi

93 **MR Imaging Findings of Parotid Tumors with Pathologic Diagnostic Clues: A Pictorial Essay**
Toshibumi Kinoshita, Kiyoshi Ishii, Hiroshi Naganuma, and Takuji Okitsu

102 **Single Shot Fast Spin Echo Diffusion-Weighted MR Imaging of the Spine: Is It Useful in Differentiating Malignant Metastatic Tumor Infiltration from Benign Fracture Edema?**
Sun-Won Park, Joo-Hyuk Lee, Shigeru Ehara, Yong-Bum Park, Su Ok Sung, Jung-Ah Choi, and Yun Eun Joo

**Contents continued**

**109** **Intramuscular Ganglion Arising from the Acromioclavicular Joint**
Xavier Montet, Maria Pia Zamorani-Bianchi, Amir Mehdizade, Carlo Martinoli, and Stefano Bianchi

**113** **Pulmonary Blastoma: Radiologic Findings in Five Patients**
Hyun Ju Lee, Jin Mo Goo, Kyoung Won Kim, Jung-Gi Im, and Jin-Hwan Kim

**119** **Relationship Between CT Findings of Pulmonary Tuberculosis and the Number of Acid-Fast Bacilli on Sputum Smears**
Shin Matsuoka, Katsuhiro Uchiyama, Hideki Shima, Kiminori Suzuki, Akimitsu Shimura, Yuka Sasaki, and Fumio Yamagishi

**124** **Confluent Hepatic Fibrosis as the Presenting Imaging Sign in Nonadvanced Alcoholic Cirrhosis**
Nikolaos L. Kelekis, Eirini Makri, Aikaterini Vassiou, Kalliopi Patsiaoura, Michalis Spiridakis, and Georgios N. Dalekos

**128** **Hyperdense Gallbladder Wall Sign: An Overlooked Sign of Acute Cholecystitis on Unenhanced CT Examination**
She-Meng Cheng, Suk-Ping Ng, and Shin-Lin Shih

**132** **Rare Localization of a Portal Cavernoma in the Wall of the Common Bile Duct**
S. Novellas, P. Chevallier, J.L. Peroux, and J.-N. Bruneton

**135** **Animal Study of Renal Volume Measurement on Abdominal CT Using Digital Image Processing: Preliminary Report**
Jong Chul Kim

**138** **Virtual Cystoscopy in the Evaluation of Bladder Tumors**
Cisel Yazgan, Suat Fitoz, Cetin Atasoy, Kadir Turkolmez, Cemil Yagci, and Serdar Akyar

**143** **MRI of Gynecological Neoplasm**
Margaret H. Pui, Qiu Yan Wang, Bin Xu, and Guo Ping Fan

ABSTRACTS

**153** **Summaries of Selected Journal Articles**

BOOK REVIEWS

**156** **PocketRadiologist: Temporal Bone: Top 100 Diagnoses; Paperback and CD-ROM PDA Software**
H. Ric Harnsberger, Richard H. Wiggins III, Joel D. Swartz, Patricia A. Hudgins, Editors (reviewed by Aldo Morra, MD)

**156** **Chest Radiology: Plain Film Patterns and Differential Diagnosis—5th Edition**
James C. Reed, Editor (reviewed by David Yankelevitz, MD)

**157** **Pain Medicine—A Comprehensive Review—2nd Edition**
P. Prithvi Raj, Editor (reviewed by Loredana Plai, MD)

**158** **Forthcoming Meetings and Courses**

---

VOLUME 28, NUMBER 3, 2004

ORIGINAL ARTICLES

**159** **High Field Body MR Imaging: Preliminary Experiences**
Hidemasa Uematsu, Masaya Takahashi, Lawrence Dougherty, and Hiroto Hatabu

163 **Left Hemisphere and Male Sex Dominance of Cerebral Hemiatrophy (Dyke–Davidoff–Masson Syndrome)**
Özkan Ünal, Temel Tombul, Bayram Çırak, Ömer Anlar, Lütfi İncesu, and Mustafa Kayan

166 **Neurosarcoidosis: Findings in MRI**
C. Fels, A. Riegel, K. Javaheripour-Otto, and S. Obenauer

170 **Intradural Disc Herniation with Cranial Migration of an Excluded Fragment**
P. Sarlième, E. Delabrousse, C. Clair, H. Haj Hussein, C. Schmitt, and B. Kastler

173 **Sickle Cell Cerebrovascular Disease: Usual and Unusual Findings on MR Imaging and MR Angiography**
Toshio Moritani, Yuji Numaguchi, Norma B. Lemer, Martha K. Rozans, Avin E. Robinson, Akio Hiwatashi, and Per-Lennart Westesson

187 **Chordoma Mimicking the Trigeminal Schwannoma: A Case Report**
Chia-Ying Lu, Chee-Yin Chai, and I-Chan Chiang

191 **Pulmonary Cryptococcosis in Immunocompetent Patients: HRCT Characteristics**
Sadayuki Murayama, Shuji Sakai, Hiroyasu Soeda, Hidetake Yabuuchi, Kouji Masuda, Hiromasa Inoue, Hideyuki Watanabe, and Yoshitomo Matsuo

196 **Radiologic Aspects of Abdominal Hydatidosis in Children: A Study of 31 Cases in Turkey**
L. Oktay Erdem, C. Zuhal Erdem, Kader Karlıoguz, and Çigdem Uner

201 **CT Features of Bladder Small Cell Carcinoma**
Jong Chul Kim

206 **Chondrolipoma in the Palm of a Child: Sonographic and MR Findings**
Fabian J. Candocia and Dan M. Barlev

209 **Lymphomatoid Granulomatosis in a Pediatric Patient**
Joseph P. Mazzie, Anita P. Price, Poonam Khullar, Carlos H. Montoya, Jon E. Roberts, Haesoon Lee, Lewis Williams, Allan Schuss, and Douglas S. Katz

214 **Melorheostosis with Scleroderma**
G. Shivanand and D.N. Srivastava

216 **Radiologic Demonstration of Temporal Development of Bizarre Parosteal Osteochondromatous Proliferation**
Justin Q. Ly, Liem T. Bui-Mansfield, and Dean C. Taylor

219 **Spinous Process Fractures Associated with Baastrup Disease**
Pedro S. Pinto, Robert D. Boutin, and Donald Resnick

223 **Percutaneous Retrieval of 20 Centrally Dislodged Port-A Catheter Fragments**
Juhn-Cherng Liu, Hsiuo-Shan Tseng, Chia-Yuen Chen, Ming-Sheng Chern, and Cheng-Yen Chang

CASE REPORTS

230 **Selected Case Reports**

ABSTRACTS

231 **Summaries of Selected Journal Articles**

**Contents continued**

BOOK REVIEWS

**234** **Essentials of Musculoskeletal Imaging**
Georges Y. El-Khoury (reviewed by Aldo Morra, MD)

**234** **Imaging in Trauma and Critical Care—2nd Edition**
Stuart E. Marvis and K. Shanmuganathan (reviewed by Armand F. Cortese, MD)

**235** **Practical MR Mammography**
Uwe Fischer (reviewed by Antonio F. Govoni, MD)

**236** **CT and MRI Imaging of the Whole Body—4th Edition**
John R. Haga, Charles F. Lanzieri and Robert C. Gilkeson (reviewed by Roberto Pozzi Mucelli)

**237** **Forthcoming Meetings and Courses**

VOLUME 28, NUMBER 4, 2004

ORIGINAL ARTICLES

**239** **Hodgkin's Disease: A Quantitative Evaluation by Computed Tomography of Tumor Burden**
Pietro Torricelli, Pier Luigi Grimaldi, Federica Fiocchi, Massimo Federico, and Renato Romagnoli

**245** **An Initial Experience: Using Helical CT Imaging to Detect Obscure Gastrointestinal Bleeding**
Frank H. Miller and Caroline M. Hwang

**252** **Occlusive Arterial Disease of Abdominal Aorta and Lower Extremities: Comparison of Helical CT Angiography with Transcatheter Angiography**
Benoît Mesurolle, Salah D. Qanadli, Mostafa El Hajjam, Olivier A. Goeau-Brissonnière, François Mignon, and Pascal Lacombe

**261** **CNS Vasculitis and Vasculopathy: Efficacy and Usefulness of Diffusion-Weighted Echoplanar MR Imaging**
Toshio Moritani, Akio Hiwatashi, David A. Shrier, Henry Z. Wang, Yuji Numaguchi, and Per-Lennart A. Westesson

**271** **Granular Cell Tumor Presenting as an Intradural Extramedullary Tumor**
Yukihisa Takayama, Kanehiro Hasuo, Naoki Takahashi, Masaki Nishimiya, Takeshi Nonoshita, Yasuhito Takita, and Hirofumi Kuroki

**274** **Thymic MALT Lymphoma: MR Imaging Findings and Their Correlation with Histopathological Findings on Four Cases**
Seiko Kuroki, Katsuhiro Nasu, Koji Murakami, Takayuki Hayashi, Ryuzo Sekiguchi, Hirotoshi Nishida, Kunihisa Miyagawa, Yoshifumi Kuroki, and Shigeru Nawano

**278** **Breast Abscess Mimicking Malignant Mass Due to Retained Penrose Drain: Diagnosis by Mammography and MRI**
Muşturay Karçaaltıncaba, Figen B. Demirkazık, Tuna İmamoğlu, Ahmet Fırat, and Macit Arıyürek

**280** **Imaging Features of Atypical Thoracic Castleman Disease**
Sheung-Fat Ko, Yung-Liang Wan, Shu-Hang Ng, Jui-Wui Lin, Ming-Jeng Hsieh, Fu-Min Fang, Tze-Yu Lee, and Wei-Jen Chen

**286** **Efficacy of Transrectal Ultrasonography in the Evaluation of Hematospermia**
Cemil Yagci, Sadettin Kupeli, Cisel Tok, Suat Fitoz, Sumer Baltaci, and Orhan Gogus

**291** **Imaging Findings of Extrapulmonary Metastases of Osteosarcoma**
Seung Ja Kim, Jung-Ah Choi, Sang Hyun Lee, Ja Young Choi, Sung Hwan Hong, Hye Won Chung, and Heung Sik Kang

**301** **MR Imaging of Infiltrative Muscle Involvement with Langerhans Cell Histiocytosis**
David A. May, Shaifali Kaushik, and William J. Frable

**305** **Osteonecrosis in Patients with Systematic Lupus Erythematosus MR Imaging and Scintigraphic Evaluation**
S.N. Oh, W.H. Jee, S.M. Cho, S.H. Kim, H.S. Kang, K.N. Ryu, and C.S. Cho

ABSTRACTS

**310** **Summaries of Selected Journal Articles**

BOOK REVIEWS

**313** **The Breast-Comprehensive Management of Benign and Malignant Disorder—3rd Edition**
Kirby I. Bland and Edward M. Copeland III (reviewed by Armand F. Cortese, MD, FACS)

**313** **MR-Imaging of the Lumbar Spine. A Teaching Atlas**
Juergen Kraemer and Odo Koester with the collaboration of Robert Kraemer and Gebhard Schmid (reviewed by L.A. Saint-Louis, MD)

**314** **Doppler Ultrasound in Gynecology and Obstetrics**
Christof Sohn, Hans-Joachim Voigt, and Klaus Vetter (reviewed by Jean-Noël Bruneton, MD)

**314** **Imaging Atlas of Human Anatomy—3rd Edition**
Jamie Weir and Peter H. Abrams (reviewed by Sandro Morassut, MD)

**315** **Radiology of the Skeletal Trauma—3rd Edition**
Lee F. Rogers (reviewed by Maria Cova, MD)

**316** **Forthcoming Meetings and Courses**

VOLUME 28, NUMBER 5, 2004

ORIGINAL ARTICLES

**317** **CT Screening for Lung Cancer: Assessing a Regimen's Diagnostic Performance**
Claudia I. Henschke, David F. Yankelevitz, James P. Smith, Daniel Libby, Mark Pasmantier, Dorothy McCauley, Georgeann McGuinness, David P. Naidich, Ali Farooqi, Madeline Vasquez, and Olli S. Miettinen

**322** **Solitary Pulmonary Nodules: Optimal Slice Thickness of High-Resolution CT in Differentiating Malignant from Benign**
Shingo Iwano, Naoki Makino, Mitsuru Ikeda, Shigeki Itoh, Masanori Tadokoro, Hiroko Satake, and Takeo Ishigaki

**Contents continued**

329 **CT Evaluation of Gastrointestinal Tract Perforation**
Kwon-Wan Yeung, Ming-Sung Chang, Chao-Peng Hsiao, and Jee-Fu Huang

334 **Traumatic Bowel Perforation: Analysis of CT Findings According to the Perforation Site and the Elapsed Time Since Accident**
Hyun Cheol Kim, Hyeong Cheol Shin, Seong Jin Park, Sung Il Park, Hyung Hwan Kim, Won Kyung Bae, Il Young Kim, and Du Shin Jeong

340 **Computed Tomography Findings of Peritoneal Tuberculosis: Systematic Review of Seven Patients Diagnosed in 6 Years (1996–2001)**
E. Vázquez Muñoz, J. Gómez-Cerezo, M. Atienza Saura, and J.J. Vázquez Rodriguez

344 **Radiology–Pathology Conference: Bilateral Renal Oncocytomas**
Lewis K. Shin, Ruth L. Badler, Frank M. Bruno, Mala Gupta, and Douglas S. Katz

349 **Multiple Hypervascular Pancreatic Metastases from Renal Cell Carcinoma: Dynamic MR and Spiral CT in Three Cases**
Giorgio Ascenti, Carmela Visalli, Antonino Genitori, Antonio Certo, Alessia Pitrone, and Silvio Mazziotti

353 **Screening for Abdominal Aortic Aneurysms During Routine Lumbar CT Scan: Modification of the Standard Technique**
Athanassios D. Gouliamos, Theodoros Tsiganis, Panagiotis Dimakakos, and Lambros J. Vlahos

356 **Enlarged Vomeronasal Organ in a Child: Imaging Findings**
Amy E. Zosel, Michelle M. Smith, Timothy L. Smith, and Mauricio Castillo

360 **Computed Tomography in TN Stage Evaluation of Oral Cavity and Oropharyngeal Cancers**
O. Malard, C. Toquet, F. Jegoux, P. Bordure, C. Beauvillain de Montreuil, and M. Gayet-Delacroix

368 **Thyroid Calcifications: Sonographic Patterns and Incidence of Cancer**
Suzuka Taki, Shintaro Terahata, Ryohei Yamashita, Keiko Kinuya, Koji Nobata, Kiyoshi Kakuda, Yuko Kodama, and Itaru Yamamoto

372 **Imaging Evaluation of Meniscal Injury of the Knee Joint: A Comparative MR Imaging and Arthroscopic Study**
Cheng-Yen Chang, Hung-Ta Hondar Wu, Tung-Fu Huang, Hsiao-Li Ma, and Shih-Chieh Hung

377 **Carotid–Anterior Cerebral Artery Anastomosis: MR Angiographic Features and Literature Review**
Akiro Uchino, Akihiro Sawada, Yukinori Takase, Takeshi Imaizumi, Ryoko Egashira, Muneaki Matsuo, and Sho Kudo

381 **Subependymoma in the Third Ventricle in a Child**
Hyo-Cheol Kim, In-One Kim, Chong Jai Kim, Byung Kyu Cho, Woo Sun Kim, and Kyung Mo Yeon

CASE REPORTS

385 **Selected Case Reports**

ABSTRACTS

386 **Summaries of Selected Journal Articles**

BOOK REVIEWS

**390** **Pocket Radiologist: BREAST Top 100 Diagnoses**
Robyn L. Birdwell, Elizabeth A. Morris, Shih-chang Wang, and Brett T. Parkinson (reviewed by Cristina Cressa, MD)

**390** **Interventional Radiology of the Spine-Image-Guided Pain Therapy**
J. Kevin McGraw, Editor (reviewed by L.A. Saint-Louis, MD)

**392** **The May Issue of the *Eur J Radiol* [2004;50] is dedicated to "Spinal Imaging"**

**393** **Forthcoming Meetings and Courses**

VOLUME 28, NUMBER 6, 2004

ORIGINAL ARTICLES

**395** **Ultrasound-Mediated Microbubble Destruction Enhances VEGF Gene Delivery to the Infarcted Myocardium in Rats**
Wang Zhigang, Ling Zhiyu, Ran Haitao, Ren Hong, Zhang Qunxia, Huang Ailong, Liu Qi, Zhao Chunjing, Tang Hailin, Gong Lin, Peng Mingli, and Pu Shiyu

**399** **Serial MRI Findings in a Relapsing–Remitting Form of Neuro-Behçet's Disease: A Case Report**
Shimon Ishida, Chisa Shiima, Gou Edagawa, Sadaki Sakane, and Keizo Furukawa

**404** **Suprasellar Germ Cell Tumor with Subarachnoid Seeding MRI and MR Spectroscopy Findings**
Tuba Karagulle Kendi, Sükrü Çaglar, Sinef Huvaj, Gülsah Bademci, Mustafa Kendi, and Serdar Alparslan

**408** **The Feasibility of Low-Dose CT for Pulmonary Metastasis in Patients with Primary Gynecologic Malignancy**
Mei-Jui Weng, Ming-Ting Wu, Huay-Ban Pan, Yuen-Yee Kan, and Chien-Fang Yang

**415** **Neurofibroma of the Breast in a Boy with Neurofibromatosis Type 1**
Ayse Murat, Fatma Kansiz, Nimet Kabakus, Ahmet Kazez, and Resat Ozercan

**418** **Radiology–Pathology Conference: Calcified Untreated Gastric Cancer**
Asante M. Dickson, Allan Schuss, Amit Goyal, and Douglas S. Katz

**422** **Evaluation of Perforated and Nonperforated Appendicitis with CT**
Kwok-Wan Yeung, Ming-Sung Chang, and Chao-Peng Hsiao

**428** **Barium Enema "Shoulder" Sign: A Useful Predictor of Pericolonic Fat Invasion in Colorectal Cancer**
Shu-Chiang Hsieh, Wing P. Chan, and Chun Yu

**432** **Preoperative Local Staging of Rectal Cancer with Endorectal MR Imaging: Comparison with Histopathologic Findings**
Oguz Akin, Gurel Nessar, Ahmet Muhtesem Agildere, and Gulden Aydog

**Contents continued**

**439** **Deep Venous Thrombosis: Comparison of Indirect Multidetector CT Venography and Sonography of Lower Extremities in 26 Patients**
Kun-Eng Lim, Wen-Chen Hsu, Yuan-Yu Hsu, Pao-Hsien Chu, and Chip-Jin Ng

BOOK REVIEW

**445** **Physics in Nuclear Medicine—3rd Edition**
S.R. Cherry, J.A. Sorenson, and M.E. Phelps (reviewed by Eugenio Bonatti, MD)

CASE REPORTS

**447** **Selected Case Reports**

ABSTRACTS

**448** **Summaries of Selected Journal Articles**

**452** **Forthcoming Meetings and Courses**

INDEXES

**453** **Author Index to Volume 28**

**457** **Subject Index to Volume 28**

**466** **Volume 28 Contents**

**475** **A Note of Thanks**